

Arch A. Moore, Jr.  
Governor



161789  
L. Clark Hansbarger, M.D.  
Director

# State of West Virginia

DEPARTMENT OF HEALTH

CHARLESTON 25305

March 28, 1985

W. L. Claiborne, M.D.  
Physician/Director  
Fayette County Health Department  
202 Church Street  
Fayetteville, West Virginia 25840

Dear Dr. Claiborne:

My staff has made an in-depth investigation regarding PCB contamination of the Shaffer Electric Company site at Minden, West Virginia and has made the following conclusions:

1. Upon conferring with EPA regarding their complete sampling and analysis, the information revealed that an imminent and significant public health threat did exist on site by the presence of severely contaminated soils and leaking transformers and capacitors. However, surface samples were taken off site surrounding the property in all directions. The nature of the site did not readily lend itself to any off site migration except through runoff of surface oils and sediments entering the adjacent Arbuckle Creek. The site is located in a flood-plain/flood-prone area which is situated at the bottom of a valley encompassed by mountains on all sides.

In January 1985, after the initial funding request was granted, five downstream soil samples of residential yards samples were taken as a screening precaution to determine if any PCB materials had migrated to the downstream community. This analysis revealed that PCB in concentrations of 11 ppm and 15 ppm were found in four different yards.

In February 1985, a second set of off site samples were taken, following CDC's recommended residential sampling guidelines and the results were in the range of <1 ppm (which is basically non-detectable)

AR100091

W. L. Claiborne, M.D.  
March 26, 1985  
Page Two

The evidence regarding off site migration does not suggest that an off site hazard to public health exists. This statement is confirmed by CDC through their memorandum dated February 20, 1985, a copy of which is enclosed.

2. The Environmental Health Services Laboratory has monitored the Minden water supply as well as the Arbuckle Public Service District and have found no evidence of PCB contamination (see enclosed sample analysis and results). The Oak Hill Water Company, a subsidiary of the West Virginia Water Company, found <1 ppm of PCB contamination in the Minden supply. The Minden Mine Shaft was also <1 ppm, which is basically non-detectable.

While we realize the concern of the citizens, we do wish to advise you that the Department of Health would consider consulting with anyone who feels they are experiencing illness related to PCBs. However, the evidence does not warrant a health evaluation survey (serum analysis of PCB body levels) on the residents of Minden. This is further confirmed by CDC in their memorandum of February 20, 1985.

Sincerely,

*LCH*  
L. Clark Hansbarger, M.D.  
Director of Health

LCH/bjw

Enclosures

cc: Robert Wheeler  
Clarence Christian  
✓ Bob Caron  
Charles Walters  
Concerned Citizens to  
save the Plateau

AR100092

-117

WEST VIRGINIA STATE HEALTH DEPT.,...IT  
WATER ANALYSIS REPORT ORGANICS  
ENVIRONMENTAL HEALTH SERVICES LABORATORY  
(304) 348-0197

Env. Health Service  
Water Lab  
JAN. 07 1988

IPPLY Arbuckle PSD COUNTY Fayette  
ESS Minden, WV LABORATORY NUMBER 850034  
ZIP \_\_\_\_\_ DATE OF ANALYSIS JAN. 09 1985  
T OF COLLECTION Mine Source Collection box COLLECTED BY Clarence T. Christian,  
ICE: Rock Lick Mine DATE OF COLLECTION January 7, 1985  
FRESH WATER ☐ RAW WATER ☒ TIME OF COLLECTION 10:46 a.m.  
SAMPLE SUBMITTED VIA Brought to lab by Robert Frost, Ice packs

## ANALYSIS

Contaminant	Results (mg/l)	Contaminant	Results (mg/l)
vin (0.0002) <sup>1</sup>	<input type="text"/>	Others:	NONE DETECT
dane (0.004)	<input type="text"/>	PCB	<input type="text"/>
chlor (0.1)	<input type="text"/>		<input type="text"/>
aphene (0.005)	<input type="text"/>		<input type="text"/>
4-D (0.1)	<input type="text"/>		<input type="text"/>
1,5-TP (Silvex) (0.01)	<input type="text"/>		<input type="text"/>
loroform	<input type="text"/>		<input type="text"/>
modichloromethane	<input type="text"/>		<input type="text"/>
bromochloromethane	<input type="text"/>		<input type="text"/>
moform	<input type="text"/>		<input type="text"/>
tal Trihalomethanes <sup>2</sup> (0.10 mg/l) <sup>1</sup>	<input type="text"/>		<input type="text"/>

MARKS	QUESTIONS
1	1. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.
2	2. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.
3	3. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.
4	4. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.
5	5. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.
6	6. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.
7	7. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.
8	8. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.
9	9. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.
10	10. The following are the marks obtained by a student in an examination. Find the mean marks obtained by the student.

ÄR 100093 -

CHEMISTS - Rosencrance-Stratton-Hayes-Kee-Masin-h.

Maximum Contaminant level in parenthesis

Cc

All TUM results are a system average of four samples.

PCB

FWS ID 3301003

-117

WES. VIRGINIA STATE HEALTH DEPART. I  
 WATER ANALYSIS REPORT ORGANICS  
 ENVIRONMENTAL HEALTH SERVICES LABORATORY  
 (304) 348-0197

Water Lab

JAN. 07 1985

R SUPPLY Unpass Pipe COUNTY Fayette  
 ADDRESS Minden, WV LABORATORY NUMBER 850033  
 ZIP 26041 DATE OF ANALYSIS JAN. 09 1985  
 SITE OF COLLECTION overflow pipe-spring COLLECTED BY Clarence T. Christian  
 SOURCE: Spring - Post Office Spring DATE OF COLLECTION January 7, 1985  
 TREATED WATER ☐ RAW WATER ☒ TIME OF COLLECTION 11:17 a.m.  
 SAMPLE SUBMITTED VIA Brought to lab by Robert Frost, ice packs

## ANALYSIS

Contaminant	Results (mg/l)	Contaminant	Results (mg/l)
Trin (0.0002) <sup>1</sup>	<input type="text"/>	Others:	
Dane (0.004)	<input type="text"/>	PCB	NONE DETECT
Chlor (0.1)	<input type="text"/>		
Aphene (0.005)	<input type="text"/>		
4-D (0.1)	<input type="text"/>		
1,5-TP (Silvex) (0.01)	<input type="text"/>		
loroform	<input type="text"/>		
monochloromethane	<input type="text"/>		
bromochloromethane	<input type="text"/>		
monoform	<input type="text"/>		
total Trihalomethanes <sup>2</sup> (0.10 mg/l) <sup>1</sup>	<input type="text"/>		

MARKS

AR100094

CHEMISTS Rosencrance-Stratton-Hayes-Kee-Masi

Maximum Contaminant level in parenthesis

Co

All THM results are a system average of four samples.

WEST VIRGINIA STATE HEALTH DEPARTMENT  
WATER ANALYSIS REPORT ORGANICS  
ENVIRONMENTAL HEALTH SERVICES LABORATORY  
(304) 348-0197

RECEIVED  
Health Ser.  
Water Lab

FEB. 28 1985

-117

WATER SUPPLY Arbuckle PSD PWS ID 3301003 COUNTY Fayette  
ADDRESS Box 369 copy to Jim Hodges LABORATORY NUMBER 850382  
Minden, WV ZIP 25879 DATE OF ANALYSIS MAR. 08 1985  
METHOD OF COLLECTION Overflow at source COLLECTED BY R. Frost, San  
SOURCE: Raw water source DATE OF COLLECTION 2-28-85  
TREATED WATER ☐ RAW WATER ☒ TIME OF COLLECTION \_\_\_\_\_  
SAMPLE SUBMITTED VIA Brought to lab by Bob Frost

ANALYSIS

<u>Contaminant</u>	<u>Results (mg/l)</u>	<u>Contaminant</u>	<u>Results (mg/l)</u>
Mercurin (0.0002) <sup>1</sup>	<input type="text"/>	Others:	
Endane (0.004)	<input type="text"/>	PCB	<u>NONE DETE</u>
oxychlor (0.1)	<input type="text"/>		<input type="text"/>
xaphene (0.005)	<input type="text"/>		<input type="text"/>
4-D (0.1)	<input type="text"/>		<input type="text"/>
4,5-TP (Silvex) (0.01)	<input type="text"/>		<input type="text"/>
loroform	<input type="text"/>		<input type="text"/>
omodichloromethane	<input type="text"/>		<input type="text"/>
bromochloromethane	<input type="text"/>		<input type="text"/>
omoform	<input type="text"/>		<input type="text"/>
otal Trihalomethanes <sup>2</sup> (0.10 mg/l) <sup>1</sup>	<input type="text"/>		<input type="text"/>

REMARKS \_\_\_\_\_

AR100095

CHEMISTS Rosencrance-Stratton-Hayes-Kee-Maslin-Ha

Maximum Contaminant level in parenthesis

•PCB

RECEIVED  
W. Virginia State Health Service  
Water Lab

WEST VIRGINIA STATE HEALTH DEPARTMENT  
WATER ANALYSIS REPORT ORGANICS  
ENVIRONMENTAL HEALTH SERVICES LABORATORY  
(304) 348-0197

FEB. 26 1985

WATER SUPPLY WV Water -- Minden Area, Oak Hill COUNTY Fayette  
ADDRESS 255 Jones Ave. Box 178 LABORATORY NUMBER 850381  
Oak Hill copy to Jim Hodges  
ZIP 25901 DATE OF ANALYSIS MAR. 08 1985  
TYPE OF COLLECTION Minden Raw Water Line -- Plant Pump COLLECTED BY R. Frost, San  
SOURCE: Well #3 DATE OF COLLECTION 2-28-85  
TREATED WATER ☐ RAW WATER ☒ TIME OF COLLECTION \_\_\_\_\_  
SAMPLE SUBMITTED VIA Brought to lab by Bob Frost

ANALYSIS

Contaminant	Results (mg/l)	Contaminant	Results (mg/l)
Arsenic (0.0002) <sup>1</sup>	<input type="text"/>	Others:	
Barium (0.004)	<input type="text"/>	PCB	<u>NONE DETECT</u>
Bisphenol A (0.1)	<input type="text"/>		
Caffeine (0.005)	<input type="text"/>		
4-D (0.1)	<input type="text"/>		
4,5-TP (Silvex) (0.01)	<input type="text"/>		
Chloroform	<input type="text"/>		
Dichloromethane	<input type="text"/>		
Bromochloromethane	<input type="text"/>		
Formaldehyde	<input type="text"/>		
Total Trihalomethanes <sup>2</sup> (0.10 mg/l) <sup>1</sup>	<input type="text"/>		

REMARKS

*[Handwritten signature]*

ART00096

CHEMISTS Rosencrance-Stratton-Hayes-Kee-Masin-Ha

Maximum Contaminant level in parenthesis